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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/518,421	03/03/2000	Victor Rossin	805.300US01	6283	
7590 04/10/2003					
CHRISTOPHER F. REGAN ALLEN, DYER, DOPPELT, MILBRATH & GILCHRIST, P.A. P.O. BOX 3791 ORLANDO, FL 32802-3791			EXAMINER		
			RODRIGUEZ, ARMANDO		
			ART UNIT	PAPER NUMBER	
			2828		

DATE MAILED: 04/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		<u> </u>				
	Application No.	Applicant(s)				
Office Action Commence	09/518,421	ROSSIN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Armando Rodriguez	2828 /				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with	the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply within the statutory minimum of thirty (will apply and will expire SIX (6) MONTH, cause the application to become ABAN	ly be timely filed 30) days will be considered timely. IS from the mailing date of this communication. NDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 27 L	December 2002 .					
2a) This action is FINAL . 2b) ⊠ Thi	is action is non-final.					
3) Since this application is in condition for allowated closed in accordance with the practice under the condition of the						
Disposition of Claims	Ex parte Quayle, 1905 O.D.	11, 433 O.G. 213.				
4)⊠ Claim(s) <u>1-33</u> is/are pending in the application						
4a) Of the above claim(s) is/are withdraw	vn from consideration.	_				
5) Claim(s) is/are allowed.		Paral De				
6)⊠ Claim(s) <u>1-33</u> is/are rejected.		PAUL IP				
7) Claim(s) is/are objected to.		SUPERVISORY PATENT EXAMINER				
8) Claim(s) are subject to restriction and/or	r election requirement.	TECHNOLOGY CENTER 2800				
Application Papers						
9) The specification is objected to by the Examiner		Fireminan				
10) The drawing(s) filed on is/are: a) accept						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. §	119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1.☐ Certified copies of the priority documents	s have been received.					
2. Certified copies of the priority documents	s have been received in App	olication No				
Copies of the certified copies of the prior application from the International But See the attached detailed Office action for a list.	reau (PCT Rule 17.2(a)).	-				
14) Acknowledgment is made of a claim for domestic	c priority under 35 U.S.C. §	119(e) (to a provisional application).				
a) ☐ The translation of the foreign language pro 15)☐ Acknowledgment is made of a claim for domesti	• •					
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Inf	nmary (PTO-413) Paper No(s) ormal Patent Application (PTO-152)				
S. Patent and Trademark Office						

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1,10-15,17,32 and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Balsamo (PCT WO01/48874).

Figure 1 illustrates a semiconductor laser for coupling to an optical fiber having a tapered configuration with three regions a narrow region (106) having a width (W1) with a length L1, a diverging region (108) with length L2 of 100 um and a wide region having a width (W3) with a length L3, where W3 is greater than W1, as described in pages 11-13.

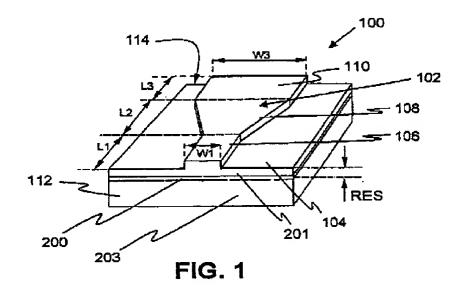
The semiconductor laser provides an output beam having a beam profile with constant slopes and a peak at the 0 degree, as shown in figure 6B, as described in page 16.

Balsamo discloses the width of the wide region as having a range of 5-20 um and the width of the narrow region as having a range of 3-5um, where the 5 um and the 3 um are slightly greater than the claimed widths of 4.3 um and 2.3 um by 0.7 um.

Therefore, it would have been obvious to person having ordinary skill in the art at the time the invention was made to modify the semiconductor laser of Balsamo by changing the size of the device. Furthermore, In Gardner v. TEC Systems, Inc., 725

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F.2d 1338, 220 USPQ 777 (Fed. Cir. 1984), cert. denied, 469 U.S. 830, 225 USPQ 232 (1984), the Federal Circuit held that, where the only difference between the prior art and the claims was a recitation of relative dimensions of the claimed device and a device having the claimed relative dimensions would not perform differently than the prior art device, the claimed device was not patentably distinct from the prior art device.



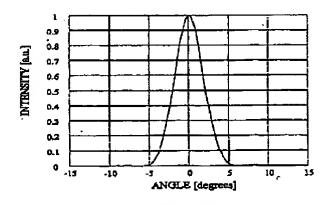


FIG. 6B

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Claims 1-9,16-31 are rejected under 35 U.S.C. 103(a) as being unpatentable over Balsamo (PCT WO01/48874), as applied to claims 1 and 17 above, and in view of Ventrudo (PN 6,058,128) and Miki et al (PN 6,094,515).

Regarding claims 1-9,17-31,

Balsamo discloses coupling the laser system to a fiber, but fails to disclose the fiber having a wavelength selection grating.

Ventrudo discloses coupling a laser system to a fiber having a grating.

Ventrudo illustrates in figure 1 a semiconductor laser (11) coupled via lenses (22,24) to an optical fiber (31), which contains a rare earth active gain medium (30) and a Bragg grating (34) positioned at 2cm to 3cm from the laser facet and having a reflectivity not exceeding 10%, as described in column 4 lines 19-67. In the abstract and columns 5 and 7 Ventrudo discloses the grating is provided at distance from the laser for causing the system to switch between the coherence collapse and coherence state.

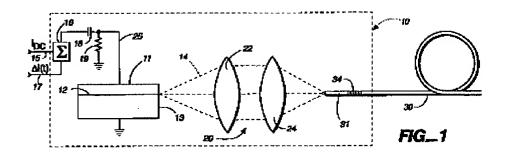
Therefore, it would have been obvious to a person having ordinary skill in art at the time the invention was made to couple the laser system of Balsamo with the fiber grating of Ventrudo because Ventrudo discloses coupling a fiber grating to laser system which will provide a broad band of wavelengths in a communications system.

Regarding claim 16,

The use of temperature controller within a semiconductor laser coupled to fiber waveguide is well known in the art, as shown in figure 2A and disclosed in column 4 line 13 of Miki et al.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Armando Rodriguez whose telephone number is (703) 308-6218. The examiner can normally be reached on 10-hour day / M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paul Ip can be reached on (703) 308-3098. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7721 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-

4881.

Amando Rodriguez

Examiner

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Paul Ip Supervisor Art Unit 2828

Paul Is

AR/PI

April 1, 2003